Index to NLGI SPOKESMAN, Vol. XXI

April, 1957 - March, 1958

INDEX BY AUTHORS

- Aarons, J. S., Experience of Steel Mills with the Bleeding of Lubricating Greases, XXI, 12-15, March, 1958
- Accinelli, J. B., A Test for Lubricating Grease Performance Under Water-Wet Conditions, XXI, 18-25, November, 1957 Co-authors, Peterson, W. H., and Skei, T.
- Barnard, T. P., Present Day Cleanliness Requirements for Instrument Bearings, XXI, 30-34, October, 1957
- Barnett, R. S., Lubrication of Aircraft Oscillating Control Bearings at High Temperatures, XXI, 14-27, December, 1957 Co-author, McGahey, D. C.
- Bergen, C. R., Metal Carbonates Coated with Salts of Low Molecular Weight Polycarboxylic Acids as Grease Thickeners, XXI, 13-17, September, 1957 Co-authors, Nelson, E. W., Scott, W. P., Tillman, R. M., Woods, W. W.
- Brandow, W. C., The Development and Application of a Broad Performance Range Gear Lubricant Additive, XXI, 8-14, January, 1958
 Co-authors, Schulte, J. W., Williams, R. K.
- Brossmann, R. J., The Contractors' Partner—The Lubricant Supplier, XXI, 16-24, March, 1958 Co-author, Rosselle, D.
- Brower, G. K., Lubricating the Construction Giants, XXI, 21-28, February, 1958
- Connell, H. R., Japan's Grease Industry, XXI, 17-22, April, 1957
- Damerell, V. R., Infrared Studies of Bentone Grease—Water Systems, XXI, 10-15, August, 1957 Co-authors, Milberger, E. C., Miller, A. F.
- Dreher, J. L., Predicting High Temperature Performance of Lubricating Greases from Laboratory Bench Tests, XXI, 13-15, May, 1957
- Eckert, G. W., A Method for the Prediction of the Hardness Changes of Greases in Storage, XXI, 17-22. August, 1957
- Ehrlich, M., The Rainbow-Does It Point to a Pot of Gold, XXI, 33-34, April, 1957
- Ewbank, W. J., What's in a Name-Definitions of

- Terms Relating to the Lubricating Grease Industry, XXI, 9-11, September, 1957
- Eyring, H., A Theory of Thixotrophy and Its Application to Grease, XXI, 12-20, June, 1957 Co-Authors, Hahn, S. J., Ree, T.
- Flanagan, J. H., *Preparing the Sales Program*, XXI, 24-32, April, 1957
- Forster, E. O., *To Pack—Or Not to Pack*, XXI, 24-28, October, 1957 Co-authors, Kolfenbach, J. J., Panzer, J.
- Glass, E. M., Materials, the Key to Aeronautical Progress, XXI, 26-29, June, 1957
- Goodwin, M. C., Effect of Vibration Frequency and Amplitude on Ball-Joint Grease Steering Performance, XXI, 10-16, April, 1957 Co-author, Hunstad, N. A.
- Gore, C. E., The Grease Cartridge, XXI, 24-32, August, 1957
- Hahn, S. J., A Theory of Thixotrophy and Its Application to Grease, XXI, 12-20, June, 1957 Co-authors, Eyring, H., Ree, T.
- Hayne, W. L., Discussion of Dreher Presentation, XXI, 16-17, May, 1957
- Honn, F. J., KEL-F No. 90 Grease—A Chemically and Thermally Stable Florocarbon Lubricant, XXI, 22-25, June, 1957
 Co-authors, Seffl, R. J., West, F. W.
- Hunstad, N. A., General Motors Looks at Rear Axle Lubricants, XXI, 12-20, February, 1958
- Hunstad, N. A., Effect of Vibration Frequency and Amplitude on Ball-Joint Grease Steering Performance, XXI, 10-16, April, 1957 Co-author, Goodwin, M. C.
- Jordan, T. B., Evaluation of Grease Lubricated Bearings at High Rotative Speeds, XXI, 18-22, May, 1957 Co-author, Roach, J. R.
- Kolfenbach, J. J., To Pack—Or Not to Pack, XXI, 24-28, October, 1957Co-authors, Forster, E. O., Panzer, J.
- Matsumoto, Y., Bearing and Grease, XXI, 22-23, April, 1957

- McGahey, D. C., Lubrication of Aircraft Oscillating Control Bearings At High Temperatures, XXI, 14-27, December, 1957 Co-author, Barnett, R. S.
- Mensel, F., NLGI Fellowship Student Stimulating Industry Research at Utah University, XXI, 21, June, 1957
- Milberger, E. C., Infrared Studies of Bentone Grease—Water Systems, XXI, 10-15, August, 1957 Co-authors, Miller, A. F., Damerell, V. R.
- Miller, A. F., Infrared Studies of Bentone Grease— Water Systems, XXI, 10-15, August, 1957 Co-authors, Damerell, V. R., Milberger, E. C.
- Nelson, E. W., Metal Carbonates Coated with Salts of Low Molecular Weight Polycarboxylic Acids as Grease Thickeners, XXI, 13-17, September, 1957 Co-authors, Bergen, C. R., Scott, W. P., Tillman, R. M., Woods, W. W.
- Nelson, R. L., Earth Moving Equipment Must Pay Off, XXI, 15-17, January, 1958
- Noll, C. R., Deterioration of Gear Lubricants in Service, XXI, 26-28, November, 1957
- Panzer, J., To Pack—Or Not to Pack, XXI, 24-28,
 October, 1957
 Co-authors, Forster, E. O., Kolfenbach, J. J.
- Peterson, W. H., A Test for Lubricating Grease Performance Under Water Wet Conditions, XXI, 18-25, November, 1957 Co-authors, Accinelli, J. B., Skei, T.
- Randak, A. S., Analyzing the Lubricating Grease Market, XXI, 15-24, July, 1957
- Ree, T., A Theory of Thixotrophy and its Application to Grease, XXI, 12-20, June, 1957 Co-authors, Eyring, H., Hahn, S. J.
- Rhodes, D. F., Manufacture of Lithium Soap Grease and Calcium Soap Grease by Electric Heating, XXI, 18-24, September, 1957
- Roach, J. R., Evaluation of Grease Lubricated Bearings at High Rotative Speeds, XXI, 18-22, May, 1957 Co-author, Jordan, T. B.
- Rosselle, D., The Contractors' Partner—The Lubricant Supplier, XXI, 16-24, March, 1958
 Co-author, Brossmann, R. J.

- Schulte, J. W., The Development and Application of a Broad Performance Range Gear Lubricant Additive, XXI, 8-14, January, 1958 Co-authors, Brandow, W. C., Williams, R. K.
- Schwenker, H., Storage Stability of Aircraft Greases, XXI, 10-14, July 1957
- Scott, W. P., Metal Carbonates Coated with Salts of Low Molecular Weight Polycarboxylic Acids as Grease Thickeners, XXI, 13-17, September, 1957 Co-authors, Bergen, C. R., Nelson, E. W., Tillmann, R. M., Woods, W. W.
- Seffl, R. J., KEL-F No. 90 Grease—A Chemically and Thermally Stable Florocarbon Lubricant, XXI, 22-25, June, 1957 Co-authors, Honn, F. J., West, F. W.
- Simonds, J. E., The Service Station and Motorist Safety, XXI, 24-30, May, 1957
- Skei, T., A Test for Lubricating Grease Performance Under Water-Wet Conditions, XXI, 18-25, November, 1957
 Co-authors, Accinelli, J. B., Peterson, W. H.
- Starr, J. V., NLGI (Proposed) Lubricating Grease Production Survey, XXI, 25, July, 1957
- Sutter, H. F., Shear Stability of a Bentone Grease, XXI, 18-21, January, 1958
- Tillman, R. M., Metal Carbonates Coated with Salts of Low Molecular Weight Polycarboxylic Acids as Grease Thickeners, XXI, 13-17, September, 1957 Co-authors, Bergen, C. R., Nelson, E. W., Scott, W. P., Woods, W. W.
- West, F. W., KEL-F No. 90 Grease—A Chemically and Thermally Stable Florocarbon Lubricant, XXI, 22-25, June, 1957 Co-authors, Honn, F. J., Seffl, R. J.
- Williams, R. K., The Development and Application of a Broad Performance Range Gear Lubricant Additive, XXI, 8-14, January, 1958 Co-authors, Brandow, W. C., Schulte, J. W.
- Woods, W. W., Metal Carbonates Coated with Salts of Low Molecular Weight Polycarboxylic Acids as Grease Thickeners, XXI, 13-17, September, 1957 Co-Authors, Bergen, C. R., Nelson, E. W., Scott, W. P., Tillman, R. M.

INDEX BY TITLES

- Analyzing the Lubricating Grease Market, A. S. Randak, XXI, 15-24, July, 1957
- Bearing and Grease, Y. Matsumoto, XXI, 22-23, April, 1957
- The Contractors' Partner-The Lubricant Supplier, D. Rosselle, R. J. Brossmann, XXI, 16-24, March, 1958
- Deterioration of Gear Lubricants in Service, C. R. Noll, XXI, 26-28, November, 1957

- The Development and Application of a Broad Performance Range Gear Lubricant Additive, R. K. Williams, W. C. Brandow, J. W. Schulte, XXI, 8-14, January, 1958
- Discussion of Dreher Presentation, W. L. Hayne, XXI, 16-17, May, 1957
- Earth Moving Equipment Must Pay Off, R. L. Nelson, XXI, 15-17, January, 1958
- Effect of Vibration Frequency and Amplitude on Ball-Joint Grease Steering Performance, M. C. Goodwin, N. A. Hunstad, XXI, 10-16, April, 1957
- Experience of Steel Mills with the Bleeding of Lubricating Greases, J. S. Aarons, XXI, 12-15, March, 1958
- Evaluation of Grease Lubricated Bearings at High Rotative Speeds, J. R. Roach, T. B. Jordan, XXI, 18-22, May, 1957
- General Motors Looks at Rear Axle Lubricants, N. A. Hunstad, XXI, 12-20, February, 1958
- The Grease Cartridge, C. E. Gore, XXI, 24-32, August, 1957
- Infrared Studies of Bentone Grease—Water Systems, E. C. Milberger, A. F. Miller, V. R. Damerell, XXI, 10-15, August, 1957
- Japan's Grease Industry, H. R. Connell, XXI, 17-22, April, 1957
- KEL-F No. 90 Grease—A Chemically and Thermally Stable Florocarbon Lubricant, R. J. Seffl, F. W. West, F. J. Honn, XXI, 22-25, June, 1957
- Lubricating the Construction Giants, G. K. Brower, XXI, 21-28, February, 1958
- Lubrication of Aircraft Oscillating Control Bearings at High Temperatures, D. C. McGahey, R. S. Barnett, XXI, 14-27, December, 1957
- Manufacture of Lithium Soap Grease and Calcium Soap Grease by Electric Heating, D. F. Rhodes, XXI, 18-24, September, 1957
- Materials, the Key to Aeronautical Progress, E. M. Glass, XXI, 26-29, June, 1957

- Metal Carbonates Coated with Salts of Low Molecular Weight Polycarboxylic Acids as Grease Thickeners, E. W. Nelson, W. W. Woods, R. M. Tillman, C. R. Bergen, W. P. Scott, XXI, 13-17, September, 1957
- A Method for the Prediction of the Hardness Changes of Greases in Storage, G. W. Eckert, XXI, 17-22, August, 1957
- NLGI Fellowship Student Stimulating Industry Research at Utah University, F. Mensel, XXI, 21, June, 1957
- NLGI (Proposed) Lubricating Grease Production Survey, J. V. Starr, XXI, 25, July, 1957
- Predicting High Temperature Performance of Lubricating Greases from Laboratory Bench Tests, J. L. Dreher, XXI, 13-15, May, 1957
- Preparing the Sales Program, J. H. Flanagan, XXI, 24-32, April, 1957
- Present Day Cleanliness Requirements for Instrument Bearings, T. P. Barnard, XXI, 30-34, October, 1957
- The Rainbow-Does It Point to a Pot of Gold, M. Ehrlich, XXI, 33-34, April, 1957
- The Service Station and Motorist Safety, J. E. Simonds, XXI, 24-30, May, 1957
- Shear Stability of a Bentone Grease, H. F. Sutter, XXI, 18-21, January, 1958
- Storage Stability of Aircraft Greases, H. Schwenker, XXI, 10-14, July, 1957
- A Test for Lubricating Grease Performance Under Water-Wet Conditions, W. H. Peterson, J. B. Accinelli, T. Skei, XXI, 18-25, November, 1957
- A Theory of Thixotrophy and Its Application to Grease, S. J. Hahn, T. Ree, H. Eyring, XXI, 12-20, June, 1957
- To Pack-Or Not to Pack, E. O. Forster, J. J. Kolfenbach, J. Panzer, XXI, 24-28, October, 1957
- What's in a Name-Definitions of Terms Relating to the Lubricating Grease Industry, W. J. Ewbank, XXI, 9-11, September, 1957

INDEX BY CATEGORY

AIRPLANE LUBRICANTS

BEARINGS

Lubrication of Aircraft Oscillating Control Bearings at High Temperatures, D. C. McGahey, R. S. Barnett, XXI, 14-27, December, 1957

TEMPERATURE

Materials, The Key to Aeronautical Progress, E. M. Glass, XXI, 26-29, June, 1957

STORAGI

Storage Stability of Aircraft Greases, H. Schwenker, XXI, 10-14, July, 1957

CONTRACTORS' EQUIPMENT-Lubrication of

- The Contractors' Partner—The Lubricant Supplier, D. Rosselle, R. J. Brossmann, XXI, 16-24, March, 1958
- Earth Moving Equipment Must Pay Off, R. L. Nelson, XXI, 15-17, January, 1958
- Lubricating The Construction Giants, G. K. Brower, XXI, 21-28, February, 1958

DEFINITION OF TERMS RELATED TO THE LUBRICATING GREASE INDUSTRY

What's in a Name-Definitions of Terms Relating to the Lubricating Grease Industry, W. J. Ewbank, XXI, 9-11, September, 1957

GEAR LUBRICANTS

- Deterioration of Gear Lubricants in Service, C. R. Noll, XXI, 26-28, November, 1957
- The Development and Application of a Broad Performance Range Gear Lubricant Additive, R. K. Williams, W. C. Brandow, J. W. Schulte, XXI, 8-14, January, 1958
- General Motors Looks at Rear Axle Lubricants, N. A. Hunstad, XXI, 12-20, February, 1958

GENERAL

- Japan's Grease Industry, H. R. Connell, XXI, 17-22, April, 1957
- NLGI Fellowship Student Stimulating Industry Research at Utah University, F. Mensel, XXI, 21, June, 1957
- NLGI (Proposed) Lubricating Grease Production Survey, J. V. Starr, XXI, 25, July, 1957

LUBRICATING GREASE

- APPLICATION—ANTI-FRICTION BEARINGS
- Bearing and Grease, Y. Matsumoto, XXI, 22-23, April,

INSTRUMENT BEARINGS

Present Day Cleanliness Requirements for Instrument Bearings, T. P. Barnard, XXI, 30-34, October, 1957

STEEL MILLS

Experience of Steel Mills with the Bleeding of Lubricating Greases, J. S. Aarons, XXI, 12-15, March, 1958

WHEEL BEARINGS

To Pack-Or Not To Pack, E. O. Forster, J. J. Kolfenbach, J. Panzer, XXI, 24-28, October, 1957

MANUFACTURE

Manufacture of Lithium Soap Grease and Calcium Soap Grease by Electric Heating, D. F. Rhodes, XXI, 18-24, September, 1957

Non-Soap Thickeners

- KEL-F No. 90 Grease—A Chemically and Thermally Stable Florocarbon Lubricant, R. J. Seffl, F. W. West, F. J. Honn, XXI, 22-25, June, 1957
- Metal Carbonates Coated with Salts of Low Molecular Weight Polycarboxylic Acids as Grease Thickeners, E. W. Nelson, W. W. Woods, R. M. Tillman, C. R. Bergen, W. P. Scott, XXI, 13-17, September, 1957

STRUCTURE

- Infrared Studies of Bentone Grease—Water Systems, E. C. Milberger, A. F. Miller, V. R. Damerell, XXI, 10-15, August, 1957
- A Theory of Thixotrophy and its Application to Grease, S. J. Hahn, T. Ree, H. Eyring, XXI, 12-20, June, 1957
- Also see Lubricating Grease, Non-Soap Thickeners

TESTING

- Discussion of Dreher Presentation, W. L. Hayne, XXI, 16-17, May, 1957
- Effect of Vibration Frequency and Amplitude on Ball-Joint Grease Steering Performance, M. C. Goodwin, N. A. Hunstad, XXI, 10-16, April, 1957
- Evaluation of Grease Lubricated Bearings at High Rotative Speeds, J. R. Roach, T. B. Jordan, XXI, 18-22, May, 1957
- A Method for the Prediction of the Hardness Changes of Greases in Storage, G. W. Eckert, XXI, 17-22, August, 1957
- Predicting High Temperature Performance of Lubricating Greases from Laboratory Bench Tests, J. L. Dreher, XXI, 13-15, May, 1957
- Shear Stability of a Bentone Grease, H. F. Sutter, XXI, 18-21, January, 1958
- A Test for Lubricating Grease Performance Under Water-Wet Conditions, W. H. Peterson, J. B. Accinelli, T. Skei, XXI, 18-25, November, 1957

MARKETING

- Analyzing the Lubricating Grease Market, A. S. Randak, XXI, 15-24, July, 1957
- The Grease Cartridge, C. E. Gore, XXI, 24-32, August, 1957
- Preparing the Sales Program, J. H. Flanagan, XXI, 24-32, April, 1957
- The Rainbow-Does It Point to a Pot of Gold, M. Ehrlich, XXI, 33-34, April, 1957
- The Service Station and Motorist Safety, J. E. Simonds, XXI, 24-30, May, 1957